

Application No.: 09/870226

Case No.: 54538US012

Claims:

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Previously presented) A retroreflective article, comprising:
 - a body layer having a front structured surface comprising recessed faces that define cube corner cavities;
 - a reflective film disposed at least on the recessed faces of the cube corner cavities;
 - and
 - a transparent adhesive layer that fills the cube corner cavities.
2. (Original) The article of claim 1, wherein the adhesive layer comprises a transparent pressure-sensitive adhesive.
3. (Original) The article of claim 1, wherein the adhesive layer comprises a transparent heat-activated adhesive.
4. (Original) The article of claim 2, wherein the pressure-sensitive adhesive comprises a crosslinked polymer.
5. (Original) The article of claim 1, wherein the adhesive layer is substantially coextensive with the structured surface.
6. (Original) The article of claim 5, further comprising:
 - a release liner that contacts the adhesive layer.
7. (Original) The article of claim 5, further comprising:

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a transparent cover layer that contacts and bonds to the adhesive layer.

8. (Original) The article of claim 7, wherein the transparent cover layer comprises a thermoplastic polymer.

9. (Original) The article of claim 7, wherein the body layer comprises a thermoplastic polymer.

10. (Original) The article of claim 7, wherein the adhesive layer has a lower elastic modulus than that of the body layer.

11. (Original) The article of claim 10, wherein the elastic modulus of the adhesive layer is less than about 345 MPa and the elastic modulus of the body layer is greater than about 690 MPa.

12. (Original) The article of claim 5, wherein the adhesive layer is substantially continuous such that it covers both the cube corner cavities and upper portions of the structured surface.

13. (Original) The article of claim 1, wherein the reflective film is discontinuous.

14. (Original) The article of claim 1, wherein the body layer also has a rear surface opposite the structured surface, the article further comprising:

a second pressure-sensitive adhesive layer disposed at the rear surface.

15. (Previously presented) A retroreflective article, comprising:

a body layer having a front structured surface comprising recessed faces that define cube corner cavities;

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a reflective film disposed at least on the recessed faces of the cube corner cavities;
and
a layer of flowable radiation-curable composition that fills the cube corner cavities
and is bonded to the reflective film.

16. (Previously presented) The article of claim 15, wherein the radiation-curable composition layer is substantially coextensive with the structured surface.

17. (Previously presented) The article of claim 16, wherein the radiation-curable composition layer covers substantially all of the structured surface.

18. (Previously presented) The article of claim 15, wherein the radiation-curable composition is substantially polymeric.

19. (Previously presented) The article of claim 15, wherein the radiation-curable composition is suitable for forming a transparent pressure-sensitive adhesive.

20. (Previously presented) The article of claim 15, wherein the radiation-curable composition has a sufficiently low shrinkage such that upon curing it maintains intimate contact with the recessed faces.

21. (Previously presented) The article of claim 15, wherein the reflective film is discontinuous, and the radiation-curable composition is suitable for forming a covalent bond with exposed portions of the body layer.

22-34 (cancelled)

35. (Previously presented) A retroreflective article, comprising:

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a body layer having front and back opposed surfaces, the front surface comprising a structured surface comprising recessed faces that define cube corner cavities and the back surface comprising a substantially non-structured surface;

a reflective film disposed at least on the recessed faces of the cube corner cavities;
and

a layer of flowable radiation-curable composition that fills the cube corner cavities and is bonded to the reflective film.

36. (Previously presented) The article of claim 35, wherein the second surface is planar.

37. (Previously presented) The article of claim 35, wherein the body layer is polymeric.